

L4 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:54374 CAPLUS
DOCUMENT NUMBER: 142:136016
TITLE: Medical **adhesive** tapes with decreased skin irritation and good adhesion, cohesive force, and discoloration resistance, and their manufacture
INVENTOR(S): Kawamura, Naohisa; Sawada, Hidenori; Kobayashi, Takayuki
PATENT ASSIGNEE(S): Saitama Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005015536	A2	20050120	JP 2003-179163	20030624
PRIORITY APPLN. INFO.:			JP 2003-179163	20030624

AB The tapes comprise substrates and **adhesive** layers with no content of **transdermal** preps. at least partially coated on one side of the substrates, wherein the **adhesive** layers consist of **plasticizers** and nonaq. **adhesives** of nonaq. solvents and acetoacetyl-**crosslinked** copolymers comprising (meth) **acrylic** monomers having acetoacetyl groups in mols. [e.g. 2-acetoacetoxyethyl **acrylate**, 3-acetoacetoxypropyl (meth) **acrylate**] and ≥ 1 (meth) **acrylic** monomers selected from 2-ethylhexyl **acrylate** (I), Bu **acrylate**, diacetone acrylamide (II), Me (meth) **acrylate**, (di)ethylene glycol **dimethacrylate**, tetraethylene glycol **dimethacrylate**, and hexaethylene glycol **dimethacrylate**. Thus, mixing iso-Pr myristate (III) with an **adhesive** comprising Et acetate, toluene, and I-II-2-acetoacetoxyethyl **methacrylate**-Me **methacrylate** copolymer, coating on a polyester substrate film, heat-drying, applying a Si-treated polyester release film to the **adhesive** layer gave an **adhesive** tape showing no bleeding out of III.

L4 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:1058932 CAPLUS
DOCUMENT NUMBER: 142:41495
TITLE: Coatings for encapsulation of photovoltaic cells
INVENTOR(S): Rearick, Brian K.; Wilt, Truman F.; Rukavina, Thomas G.; Dean, Roy E.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 8 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004244829	A1	20041209	US 2003-454714	20030604
PRIORITY APPLN. INFO.:			US 2003-454714	20030604

AB Thin film photovoltaic cells having a protective coating as an encapsulant are disclosed. The protective coating is one that imparts durability, moisture resistance and/or abrasion resistance to the photovoltaic layer of the cell. One or more coating layers, either alone or in combination with one or more primer or **adhesive** layers, can be used.

Powder, liquid and electrodeposited coatings can all be used according to the present invention. Methods of making such cells are also disclosed.

L4 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:92264 CAPLUS

DOCUMENT NUMBER: 140:152027

TITLE: Medical pressure-sensitive **adhesive** compositions containing **acrylic** polymers, **plasticizers**, and pseudocrosslinking agents and their uses

INVENTOR(S): Ohara, Minoru

PATENT ASSIGNEE(S): Cosmedy Y. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004035533	A2	20040205	JP 2002-232141	20020705
PRIORITY APPLN. INFO.:			JP 2002-232141	20020705

AB The compns., which show good adhesion, leave no **adhesives** when peeled, and have less skin-irritating action, contain **acrylic** copolymers 100, **plasticizers** 3-200, and pseudocrosslinking agents 0.3-10 parts, wherein shear at 3 g for 2 min is lower than thickness of the **adhesive** layer and shear at 80 g for 5 min is 1-10 times the thickness of the **adhesive** layer. Also claimed are medical and cosmetic **adhesive** sheets comprising the pressure-sensitive **adhesives** and active ingredients. An EtOAc solution of **Acrylic** acid-2-ethylhexyl **acrylate** -hydroxyethyl **acrylate** copolymer (preparation given, 30%) 100, iso-Pr myristate 50, and hexanedi-amine 1.0 part were mixed and applied on a silicone-treated PET film to form 100 μ m-thick **adhesive** layer. Shear of the pressure-sensitive **adhesive** was measured. The sheet was applied to forearm of male volunteers for 24 h and peeled to cause slight rash.

L4 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:160552 CAPLUS

DOCUMENT NUMBER: 138:210381

TITLE: Medical pressure-sensitive **adhesive** compositions, and medical **adhesive** tapes and **transdermal** tape preparations using the compositions

INVENTOR(S): Kuroda, Hidetoshi; Muraoka, Takamitsu; Inosaka, Keigo; Akami, Hitoshi

PATENT ASSIGNEE(S): Nitto Denko Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003062058	A2	20030304	JP 2001-259970	20010829
EP 1291025	A2	20030312	EP 2002-400039	20020827
EP 1291025	A3	20040107		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

CN 1406634	A	20030402	CN 2002-141889	20020827
CA 2400444	AA	20030228	CA 2002-2400444	20020828
US 2003049440	A1	20030313	US 2002-230495	20020829
PRIORITY APPLN. INFO.:			JP 2001-259970	A 20010829

AB The compns. essentially contain (A) copolymers containing (a) ≥ 50 C4-18 alkyl (meth)acrylates, (b) 0.1-10% carboxy-containing vinyl compds., and optionally (c) $\leq 49.9\%$ vinyl compds. having no carboxy group, (B) alcoholates or chelates of ≥ 1 metal selected from Ti, Zr, Zn, and Al, and (C) 0.2-5% polyol compds. The compns. may addnl. contain (D) plasticizers miscible with (A) at (A):(D) weight ratio 1.0:0.25-2.0. Also claimed are medical adhesive tapes having adhesive layer made of the compns. and transdermal tape preps. having an adhesive layer containing the compns. and drugs. EtOAc solution of 2-ethylhexyl acrylate-acrylic acid copolymer (preparation given, solid content 99.5 parts) was mixed with 0.5 part glycerin and 20 parts isopropanol, and further mixed with 0.3 part Et acetoacetate aluminum diisopropylate (as solution of isopropanol/ethyl acetoacetate) to give an pressure-sensitive adhesive solution. A polyester nonwoven fabric laminated with poly(ethylene terephthalate) film was coated with the solution and dried to give an medical adhesive tape. The tape was applied to breast of volunteers for 48 h and peeled to show no remaining of the adhesive.

L4 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:849482 CAPLUS
DOCUMENT NUMBER: 137:358132
TITLE: Pharmaceutical hydrogel compositions containing polymers
INVENTOR(S): Cleary, Gary W.; Parandoosh, Shoreh; Feldstein, Mikhail M.; Chalykh, Anatoly E.
PATENT ASSIGNEE(S): A.V. Topchiev Institute of Petrochemical Synthesis, Russia
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002087645	A1	20021107	WO 2002-US14260	20020501
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2445086	AA	20021107	CA 2002-2445086	20020501
EP 1390085	A1	20040225	EP 2002-766907	20020501
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004536898	T2	20041209	JP 2002-584987	20020501
PRIORITY APPLN. INFO.:			US 2001-288008P	P 20010501
			WO 2002-US14260	W 20020501

AB Hydrogel compns. are provided (a) that have a continuous hydrophobic phase and a discontinuous hydrophilic phase, (b) that have a discontinuous hydrophilic phase and a continuous hydrophilic phase, or (c) that are entirely composed of a continuous hydrophilic phase. The hydrophobic

phase, if present, is composed of a hydrophobic polymer, particularly a hydrophobic pressure-sensitive **adhesive** (PSA), a **plasticizing** elastomer, a tackifying resin, and an optional antioxidant. The discontinuous hydrophilic phase, if present, is composed of a **crosslinked** hydrophilic polymer, e.g., a **crosslinked** cellulosic polymer such as **crosslinked** sodium CM-cellulose. For those hydrogel compns. containing a continuous hydrophilic phase, the components of the phase include a cellulose ester composition or an **acrylate** polymer or copolymer, and a blend of hydrophilic polymer and a complementary oligomer capable of hydrogen bonding thereto. Films prepared from hydrogel compns. containing or entirely composed of the aforementioned continuous hydrophilic phase can be made translucent, and may be prepared using either melt extrusion or solution casting. A preferred use of the hydrogel compns. is in wound dressings, although numerous other uses are possible as well. Thus, a hydrogel composition contained cellulose acetate butyrate 21.96, PVP 43.93, and PEG-400 33.71% by weight

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:157546 CAPLUS

DOCUMENT NUMBER: 136:221507

TITLE: Personal care compositions containing **adhesive** elastomeric polymer and inorganic colloid

INVENTOR(S): Alwattari, Ali Abdelaziz

PATENT ASSIGNEE(S): The Procter & Gamble Company, USA

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002015873	A2	20020228	WO 2001-US26233	20010822
WO 2002015873	C1	20031113		
WO 2002015873	A3	20020815		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001085201	A5	20020304	AU 2001-85201	20010822
PRIORITY APPLN. INFO.:			US 2000-643491	A 20000822
			WO 2001-US26233	W 20010822

AB Compns. containing a film-forming inorg. colloid and an **adhesive** elastomeric polymer for modifying the appearance of skin and/or hair are described. The compns. contain (i) about 0.1-60% of a film-forming inorg. colloid, such as silica, boehmite alumina, zirconium dioxide, zirconium polyanions, boron nitride, nickel hydroxide, nickel acetate, zinc hydroxide, and titanium dioxide, (iii) about 0.1-70% of an **adhesive** elastomeric polymer, e.g., styrene-isoprene elastomers, styrene-butadiene elastomers, styrene-ethylene/propylene-styrene elastomers, styrene-ethylene/butylene-styrene elastomers, terminal hydroxylated polyethylene/butylene elastomers, ethylene-propylene elastomers, polystyrene-co-polyethylene-propylene elastomers, styrene-**acrylate**

elastomer, silicone elastomer, **acrylic** acid ester elastomer, etc., and (iii) about 10-99.8% of a **dermatol**. acceptable carrier, such as a diluent selected from water, aliphatic hydrocarbons, aliphatic alcs., silicones, ketones, esters, alcs., glycols, glycol ethers, and aromatic hydrocarbons. The composition is in a form of facial skin cosmetic, eye cosmetic, lip cosmetic, scalp hair styling aid, facial hair styling aid, moisturizer, wrinkle soothing serum, lotion, mascara, skin facial mask, eye gel, eye cream, lip gel, lip cream, cosmetic and foundation. The composition further comprises a skin care active selected from retinoids, vitamin B3 compds., vitamin E compds., panthenol, titanium dioxide, and salicylic acid. For example, a skin serum contained colloidal silica 10%, styrene-**acrylate** copolymer 10%, petrolatum 5%, water 70%, and ethylene-**acrylate** available as EA209 pigment powder beads 5%. After application to the skin, an excellent, aesthetically-pleasing wrinkle-reducing effect of the composition was obtained.

L4 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:231759 CAPLUS

DOCUMENT NUMBER: 134:227354

TITLE: **Adhesive** polymer substrate for **transdermal** tape

INVENTOR(S): Wang, Yingchi

PATENT ASSIGNEE(S): Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.
CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1267516	A	20000927	CN 1999-103062	19990319
PRIORITY APPLN. INFO.:			CN 1999-103062	19990319

AB The substrate is composed of polymeric monomer 4-40, solvent 4-40, water 12-40, moisturizer 12-35, additive 0-15, initiator 0.01- 0.1, and **crosslinking** agent 0.02-0.5%. The polymeric monomer is acrylamide, Na **acrylate**, and/or poly(vinyl alc.). The solvent is ester or low mol. weight alc. The moisturizer is propanediol or glycerol. The additive is poly(ethylene glycol), gelatin, alginate, or hydroxypropylcellulose. The **crosslinking** agent is bis(acrylamide)s, allyl esters, halo-epoxy-hydrocarbons, or multi-epoxy compds., preferably N,N- methylenebis(acrylamide), diallyl phthalate, diallyl terephthalate, ethylene **diacrylate**, monoallyl maleate, 3-chloro-1,2-epoxypropane, ethylene glycol diglycidyl ether or glycerol diglycidyl ether. The initiator is benzoyl peroxide, persulfate-NaHSO₃, or H₂O₂-L-ascorbic acid. The process comprises dissolving polymeric monomer in water, mixing with humectant, solvent, and additive, adding initiator, coating on carrier with coating thickness of 50 Φmm-3.0 mm, curing at 25-80Φ' for 0.5-30 min, covering with antitack layer, and etc. The substrate is used for preparation of **transdermal** drug delivery systems (such as **transdermal** absorbents and **transdermal** ion guiding agents) and medicinal electrodes. The **transdermal** drug delivery system is prepared by mixing drug, **transdermal** permeation adjuvant, and surfactant with the raw material for substrate, and coating, etc. The **transdermal** permeation adjuvant is oleic acid, oleyl alc., azone, NaCl, eucalyptus extract, or peppermint oil, and the ratio of the **transdermal** permeation adjuvant to drug is 0.5- 20%. The ratio of surfactant to drug is 0-20%. The carrier for medicinal electrode is conductor-insulator composite such as Al-**plastic** or conductive **plastic** -nonwoven fabrics.

L4 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:881257 CAPLUS
DOCUMENT NUMBER: 134:46842
TITLE: Pressure sensitive conductive polymer **adhesive**
having hot-melt properties and biomedical electrodes
using same
INVENTOR(S): Wang, Danli; Stark, Peter A.; Everaerts, Albert I.
PATENT ASSIGNEE(S): 3M Innovative Properties Co., USA
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000075255	A2	20001214	WO 2000-US14488	20000525
WO 2000075255	A3	20020606		
W: CN, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6232366	B1	20010515	US 1999-328334	19990609
EP 1244755	A2	20021002	EP 2000-937793	20000525
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
JP 2003501545	T2	20030114	JP 2001-502526	20000525
PRIORITY APPLN. INFO.:			US 1999-328334	A 19990609
			WO 2000-US14488	W 20000525

AB A skin-compatible, hot-melt processible, pressure sensitive **adhesive** based on a copolymer of a (meth)**acrylate** ester and an acidic comonomer is disclosed. A thermo-reversible **crosslinking** is achieved, permitting advantages in processibility and the reduction of waste. For example, a solution containing iso-octyl **acrylate** 53 g, **acrylic** acid 76.1 g, β -carboxyethyl **acrylate** 3 g, iso-octylthioglycolate 0.2 g, Irg 184 0.195 g, glycerol 20 g, and PEG 400 48 g was polymerized by UV light and the polymer obtained was compounded with a solution containing (by weight) 15% Brij 97, 2.35% polyethylenimine, and 2% KCl water to generate colloid structured **adhesive**. The **adhesive** was hot pressed at .apprx. 70° to form a film.

L4 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:756375 CAPLUS
DOCUMENT NUMBER: 133:313662
TITLE: **Transdermal** therapeutic system with
neutralized **acrylate** skin **adhesives**
INVENTOR(S): Bracht, Stefan
PATENT ASSIGNEE(S): Lts Lohmann Therapie-Systeme Ag, Germany
SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19918106	A1	20001026	DE 1999-19918106	19990422
CA 2370019	AA	20001102	CA 2000-2370019	20000407
WO 2000064418	A2	20001102	WO 2000-EP3112	20000407

WO 2000064418 A3 20010315
W: AU, BR, CA, CN, CZ, HU, IL, IN, JP, KR, MX, NZ, PL, RU, TR, US, ZA
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE

EP 1171104 A2 20020116 EP 2000-922615 20000407
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

TR 200102916	T2	20020121	TR 2001-200102916	20000407
JP 2002542277	T2	20021210	JP 2000-613409	20000407
BR 2000011131	A	20030812	BR 2000-11131	20000407
NZ 514946	A	20040227	NZ 2000-514946	20000407
RU 2242971	C2	20041227	RU 2001-127440	20000407
AU 779960	B2	20050224	AU 2000-42942	20000407
ZA 2001008564	A	20020911	ZA 2001-8564	20011018
US 6689379	B1	20040210	US 2001-959288	20011019

PRIORITY APPLN. INFO.: DE 1999-19918106 A 19990422
WO 2000-EP3112 W 20000407

AB A **transdermal** matrix or a reservoir therapeutic system consists of at least 1 basic or neutral drug, and a skin **adhesive** polymer containing **acrylic** methacrylic acid units. Thus, a **transdermal** therapeutic system consists of a drug, e.g., tulobuterol (5%) based on a **polyacrylate** matrix.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:789697 CAPLUS

DOCUMENT NUMBER: 132:26857

TITLE: Cover sheets for **transdermal** patches and its application method

INVENTOR(S): Fukushima, Yasuhiro; Ninomiya, Kazuhisa; Ookubo, Katsuyuki; Inoue, Yuichi

PATENT ASSIGNEE(S): Nitto Denko Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 11343232	A2	19991214	JP 1998-147266	19980528
PRIORITY APPLN. INFO.:			JP 1998-147266	19980528

AB The invention relates to a cover sheet for use in a **transdermal** patch for providing improved adhesion of the patch to skin, consisting of a **plastic** base sheet and an **adhesive** layer, wherein the **adhesive** layer exhibits an adhesion strength, obtained by the JISZ0237 method against bakelite plate, of 50-1000 g/24 mm, and the cover sheet exhibits an elongation percentage of 200-1500 %. An acetic acid solution of an **acrylic adhesive acrylic** acid-2-ethylhexyl **acrylate** copolymer was combined with iso-Pr myristate and isocyanate **crosslinking** agent (Coronate C/HL) to formulate an **adhesive** solution. The **adhesive** solution was applied to a composite film (40 μ m thickness) consisting of a polyurethane nonwoven fabric (Espansione) and polyurethane film to make a cover sheet.

L4 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:292620 CAPLUS

DOCUMENT NUMBER: 130:326030

TITLE: Enhancer-tolerant pressure-sensitive **adhesives** comprising **acrylic** copolymer having

monomeric units of substituted (meth)acrylamides for
transdermal drug delivery

INVENTOR(S): Tan, Hock S.; Zhang, Ingrid; Lydzinski, Susan; Merkel,
Peter L.; Foreman, Paul; Shah, Smita; Chandran, Rama
S.

PATENT ASSIGNEE(S): National Starch and Chemical Investment Holding
Corporation, USA

SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 913445	A1	19990506	EP 1998-120011	19981022
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 11256126	A2	19990921	JP 1998-305122	19981027
CA 2252156	AA	19990428	CA 1998-2252156	19981028
PRIORITY APPLN. INFO.:			US 1997-958862	A 19971028

AB Pressure-sensitive **adhesives** for use in **transdermal**
drug delivery systems comprise an **adhesive** composition which is
tolerant to **plasticization** by cutaneous penetration enhancers
contained in the **transdermal** drug formulation. The
pressure-sensitive **adhesive** composition comprises an **acrylic**
copolymer prepared from (i) >40 weight% alkyl **acrylate** monomers with
a Tg of -90 to 0°, (ii) 0-15 weight% monomers with a Tg of
0-250°, and (iii) 10-60 weight% substituted acrylamides or
methacrylamides having the formula CH₂:CR₁CON(R₂)R₃ where R₁, R₂ is H or
CH₃; R₃ is CH₃, C(CH₃)₂(CH₂)_nCH₃, n = 0-17, or C(CH₃)₂CH₂CO(CH₂)_mCH₃, m =
0-10, and optionally (iv) at least 0.2 weight% **acrylic** monomers
containing at least one group having a reactive hydrogen, and (v) 0.01-2
weight%
of a chelated metal alkoxide **crosslinker** for (i), (ii) and
(iii). Thus, a pressure-sensitive **adhesive** composition made from a
copolymer comprising tert-octyl acrylamide 10, Bu **acrylate** 80,
vinyl acetate 5, and **acrylic** acid 5 weight% was compounded with 5%
glycerol monolaurate and 5% lauryl alc., and the compounded formulation
had **crosslinker** 0.46%, peel adhesion on stainless steel panel 19
oz/in. (20 min), 27 oz/in. (24 h), time to reach 8 psi shear 5.9 h, and
probe track (for peak of force profile) 234 g, compared to 0.46, 0.1, 0.3,
0.0, and 4, resp., for a control made with a copolymer comprising iso-Bu
methacrylate 30, 2-ethylhexyl **acrylate** 30, Bu
acrylate 33, vinyl acetate 5, and **acrylic** acid 2 weight%.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:34796 CAPLUS

DOCUMENT NUMBER: 130:100670

TITLE: **Adhesive** mixture for **transdermal**
delivery of highly **plasticizing** drugs

INVENTOR(S): Govil, Sharad K.; Weinmann, Ludwig J.

PATENT ASSIGNEE(S): Bertek, Inc., USA

SOURCE: Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 887075	A2	19981230	EP 1998-109500	19980526
EP 887075	A3	20021106		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002150613	A1	20021017	US 1997-883075	19970626
EP 1561461	A2	20050810	EP 2004-30946	19980526
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
JP 11060475	A2	19990302	JP 1998-179153	19980625
US 2001006628	A1	20010705	US 2001-754909	20010105
US 2004137046	A1	20040715	US 2003-730561	20031208
PRIORITY APPLN. INFO.:			US 1997-883075	A 19970626
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Same

AB **Transdermal** drug delivery patches and methods of their production are described. The patches are made to accommodate highly **plasticizing** drugs such as selegiline and/or the use of protonated forms of various drugs. A liquid **adhesive**, Gelva 1753 was dissolved in ethanol and triethanolamine was added to the **adhesive** solution. Selegiline-HCl dissolved in 1,2-propanediol was gradually added to the above **adhesive** solution. A siliconized release liner was coated with the final **adhesive** mixture and laminated to a polyester backing layer. The laminate was subsequently cut to patches and packaged in heat-sealable pouches.

L4 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1991:129104 CAPLUS
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 TITLE: **Transdermal** delivery system for neoplasm inhibitors comprising **acrylic** polymers
 INVENTOR(S): Mueller, Walter; Kindel, Heinrich
 PATENT ASSIGNEE(S): Lohmann Therapie-Systeme G.m.b.H. und Co. K.-G. (LTS), Germany
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DE 3901551	A1	19900726	DE 1989-3901551	19890120
DE 3901551	C2	19920102		
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EP 379933	A2	19900801	EP 1990-100806	19900116
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
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AB Neoplasm inhibitors are incorporated for **transdermal** delivery into a composition containing a self-**adhesive polyacrylate** and a water absorber, and, optionally, a nonadhesive hydrophilic **polyacrylate**, a **plasticizer**, and a penetration enhancer. A mixture was made of 4352 g 40% Eudragit RL 100 solution in Me Et ketone, 16697.6 g 42% Duro-Tak 280-2516 (**polyacrylate adhesive**) solution, 436 g Aquakeep 10 SH (**crosslinked** polyacrylic acid) and a solution of 75 g 5-fluorouracil in 2753 g 1,2-propanediol. The mixture was spread onto an aluminized and siliconized polyester foil, followed by solvent evaporation and application of a polyester foil, to give a skin patch.